9040B
Excavator

ENGINE

Model	Case 6T-830
Type	4-stroke, turbocharged
Cylinders	6
Bore/Stroke	4.49″ x 5.31″ (114 x 135 mm)
Displacement	505 in^3 (8.3 L)
Fuel injection	Direct
Fuel	Diesel
Fuel filter	In-line strainer
Cooling	Liquid
Horsepower per SAE J1349	
Net	178 hp (133 kW) @ 2200 rpm
Maximum torque @ 1500 rpm	
Net	574 lb·ft (778 N·m)

BOOM/ARM

Boom

Length	19′2″ (5.8 m)
Boom w/arm cylinder & plumbing	4,943 lb (2242 kg)
Hoist cylinders (2)	543 lb (246 kg) ea
Total weight	6,030 lb (2735 kg)

11′7″ Arm (3.5 m)

Length	11′7″ (3.5 m)
Bare arm	1,945 lb (882 kg)
Bucket cylinder linkage & plumbing	1,019 lb (462 kg)
Total weight	2,964 lb (1344 kg)

10′2″ Arm (3.1 m)

Length	10′2″ (3.1 m)
Bare arm	1,734 lb (787 kg)
Bucket cylinder linkage & plumbing	1,019 lb (462 kg)
Total weight	2,753 lb (1249 kg)

UNDERCARRIAGE

Number of top rollers	
Top, each track	2
Bottom, each track	9
Number of shoes	
Triple grouser – each track	51
Link pitch	7.48″ (190 mm)

HYDRAULICS

Pumps (2)	Variable displacement axial-piston design
Capacity –	
Maximum	2 x 56 gpm (212 L/min)
Minimum	2 x 20 gpm (76 L/min)
System relief pressure –	
Standard	4554 psi (31 400 kPa)
Power Boost	4975 psi (34 300 kPa)

Control valves –
4-spool section for left track travel, boom #1, bucket #1 & #2, arm #2
5-spool section for right track travel, boom #2, auxiliary, swing and arm #1
Boom and arm holding valves

Pilot control hydraulic system –	
Pump (1)	Gear design
Maximum capacity	5.8 gpm (22 L/min)
Relief pressure	566 psi (3900 kPa)

Swing –	
Motor (1)	Fixed displacement axial-piston design
Speed	0-10.4 rpm
Brake	Spring-applied hydraulically released with dual cushion relief
Tail swing radius	9′10″ (3.0 m)

Travel –	
Motor (2)	Three-speed axial-piston design
Final drive	Planetary gear reduction
Drawbar pull	43,000 lb (191 kN)

Travel Speeds –	Forward/Reverse
Low	1.5 mph (2.4 km/h)
Medium	2.1 mph (3.4 km/h)
High	3.4 mph (5.5 km/h)

Travel control valve –
Dual stage relief and counter-balance design

HYDRAULIC CYLINDERS

Boom cylinders (2) –	
Bore diameter	5.1″ (130 mm)
Rod diameter	3.5″ (89 mm)
Stroke	50.3″ (1.28 m)
Arm cylinder (1) –	
Bore diameter	5.9″ (150 mm)
Rod diameter	4.1″ (105 mm)
Stroke	64.3″ (1.63 m)
Bucket cylinder (1) –	
Bore diameter	5.3″ (135 mm)
Rod diameter	3.5″ (89 mm)
Stroke	42.2″ (1.07 m)

ELECTRICAL

Voltage	24 volts, negative ground
Alternator	65 amp
Batteries (2)	Low-maintenance 140 Ah (20 hr rate)

SERVICE CAPACITIES

Hydraulic tank	
Refill capacity	32 gal (121 L)
Total system	58 gal (220 L)
Final drive (per side)	5.0 qt (4.7 L)
Swing drive	6.3 qt (6.0 L)
Engine	
w/filter change	23.2 qt (22 L)
Fuel	82 gal (310 L)
Radiator	26.9 qt (25.5 L)

OPERATING WEIGHT

With 10′2″ (3.1 m) arm, 32″ (800 mm) track shoes, 1,716 lb (778 kg) bucket, 175 lb (79 kg) operator, full fuel and standard equipment .... 53,140 lb (24 104 kg)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT
Cab with Isomount® system
Adjustable deluxe seat with 3″ (76 mm) retractable seat belt
Oscillating fan
Vandal cover
Front window safety glass
Heater: 13,500 BTU
AM/FM Radio
Roof hatch, skylight
Sliding Lexan** windows
Windshield wiper w/washer

ENGINE
Case 6T-830 turbocharged diesel
Federal emission certified
Ether cold start
Warm up mode
Selectable one touch or auto accelerator/decelerator

ELECTRICAL
Batteries (2)
Electronic Systems Monitor
Horn, dual

HYDRAULICS
ISO pattern pilot controls
4 Position mode selector: H, S, L & F
Power boost
2 Variable flow piston pumps
Auxiliary attachment mode
Auto pump destroke
Auxiliary hydraulic valve
Boom and arm holding valves
Selectable cushion control for boom and arm
Controlled free swing
Ultra clean filtration system

UNDERCARRIAGE
Shoes: 32″ (800 mm) 3-bar, 51 per side
Track length: 15′3″ (4.65 m)
Track gauge: 8′6″ (2.59 m)

TRACK DRIVE
3 speed hydrostatic travel
Straight tracking travel priority
Disc type parking brakes

UPPERSTRUCTURE
Boom: 19′2″ (5.8 m) one piece
Free swing control
Hammer adaptable, no reinforcing required
Swing brake

OTHER
Counterweight: 9,920 lb (4509 kg)
Single key vandal lockup

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT
Air conditioner

UPPERSTRUCTURE
Arm: 11′7″ or 10′2″ (3.5 m or 3.1 m)

HYDRAULICS
Auxiliary hydraulics
Single acting, one pump
Double acting, single or dual pump (includes heavy duty bucket linkage)
Double acting general purpose for use with thumb kit

OTHER
Load holding control devices
Cylinder mounted
Case/JRB Slide-Loc* Coupler
Hydraulic or mechanical

BUCKETS

Application	**Width**	**SAE Heaped Capacity**
General purpose	30″ thru 54″ (0.76 m thru 1.37 m)	0.95 yd^3 thru 1.82 yd^3 (0.73 m^3 thru 1.39 m^3)
General purpose high-capacity	30″ thru 42″ (0.76 m thru 1.07 m)	1.20 yd^3 thru 1.75 yd^3 (0.92 m^3 thru 1.34 m^3)
Heavy-duty	30″ thru 54″(0.76 m thru 1.37 m)	0.95 yd^3 thru 1.82 yd^3 (0.73 m^3 thru 1.39 m^3)
Heavy-duty high-capacity	30″ thru 42″ (0.76 m thru 1.07 m)	1.20 yd^3 thru 1.75 yd^3 (0.92 m^3 thru 1.34 m^3)
Severe-duty	30″ thru 42″ (0.76 m or 1.07 m)	0.95 yd^3 thru 1.38 yd^3 (0.73 m^3 or 1.06 m^3)

LIFT CAPACITIES

11′7″ (3.5 m) Arm

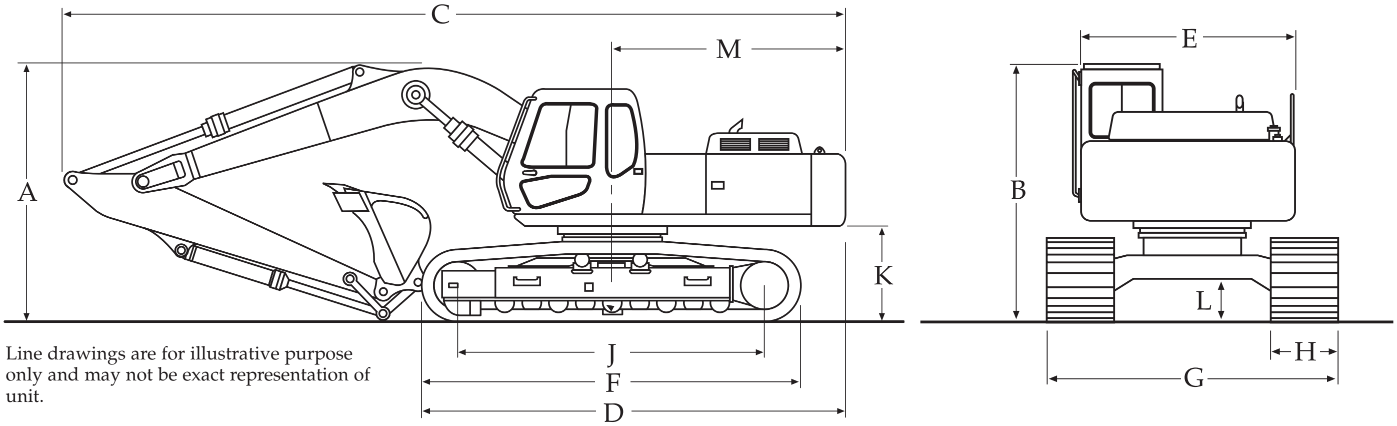
Lift capacities calculated using a 1,480 lb (671 kg) bucket, 9,920 lb (4509 kg) counterweight operating in "Fine" Mode

Load (Lift Point) Height	10′ (3.05 m)		15′ (4.57 m)		20′ (6.1 m)		25′ (7.62 m)		30′ (9.14 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+20′ (6.1 m)							9,850 lb* (4468 kg)	9,100 lb (4128 kg)			31′8″ (9.65 m)	5,300 lb* (2404 kg)	5,300 lb* (2904 kg)
+15′ (4.57 m)							10,400 lb* (4717 kg)	8,900 lb (4037 kg)	7,750 lb* (3515 kg)	6,200 lb* (2812 kg)	33′6″ (10.21 m)	5,300 lb* (2404 kg)	5,050 lb (2291 kg)
+10′ (3.05 m)			14,500 lb* (6577 kg)	14,500 lb* (6577 kg)	13,150 lb* (5965 kg)	12,350 lb (5602 kg)	11,450 lb* (5194 kg)	8,500 lb (3856 kg)	9,450 lb (4286 kg)	6,050 lb (2744 kg)	34′4″ (10.46 m)	5,400 lb* (2449 kg)	4,650 lb (2109 kg)
+5′ (1.52 m)	32,650 lb* (14 810 kg)	32,650 lb* (14 810 kg)	21,050 lb* (9548 kg)	18,250 lb* (8278 kg)	15,200 lb* (6895 kg)	11,600 lb (5262 kg)	12,350 lb* (5602 kg)	8,050 lb (3651 kg)	9,200 lb (4173 kg)	5,850 lb (2654 kg)	34′4″ (10.46 m)	5,700 lb* (2585 kg)	4,550 lb (2064 kg)
Ground-line	22,800 lb* (10 342 kg)	22,800 lb* (10 342 kg)	24,750 lb* (11 226 kg)	16,850 lb (7643 kg)	17,250 lb (7824 kg)	10,850 lb (4921 kg)	12,050 lb (5466 kg)	7,650 lb (3470 kg)	8,950 lb (4060 kg)	5,600 lb (2540 kg)	33′5″ (10.19 m)	6,250 lb* (2835 kg)	4,650 lb (2109 kg)
-5′ (-1.52 m)	26,600 lb* (12 066 kg)	26,600 lb* (12 066 kg)	25,700 lb* (11 657 kg)	16,150 lb (7326 kg)	16,800 lb (7620 kg)	10,400 lb (4717 kg)	11,750 lb (5330 kg)	7,350 lb (3334 kg)	8,850 lb (4014 kg)	5,500 lb (2495 kg)	31′7″ (9.63 m)	7,100 lb* (3221 kg)	5,100 lb (2313 kg)
-10′ (-3.05 m)	33,400 lb* (15 150 kg)	31,900 lb (14 470 kg)	25,200 lb* (11 431 kg)	16,150 lb (7326 kg)	16,650 lb (7552 kg)	10,250 lb (4649 kg)	11,700 lb (5307 kg)	7,300 lb (3311 kg)			28′8″ (8.74 m)	8,600 lb* (3901 kg)	6,100 lb (2767 kg)
-15′ (-4.57 m)	33,850 lb* (15 354 kg)	33,050 lb* (14 991 kg)	23,000 lb* (10 443 kg)	16,450 lb (7462 kg)	16,700 lb (7575 kg)	10,400 lb (4717 kg)	11,900 lb* (5398 kg)	7,500 lb (3402 kg)			24′0″ (7.32 m)	9,850 lb* (4468 kg)	8,300 lb (3765 kg)
-20′ (-6.1 m)	25,600 lb* (11 612 kg)	25,600 lb* (11 612 kg)	17,750 lb* (8051 kg)	16,900 lb (7666 kg)	11,700 lb* (5307 kg)	11,000 lb* (4990 kg)							

10′2″ (3.1 m) Arm

Lift capacities calculated using a 1,690 lb (767 kg) bucket, 9,920 lb (4509 kg) counterweight operating in "Fine" Mode

Load (Lift Point) Height	10′ (3.05 m)		15′ (4.57 m)		20′ (6.1 m)		25′ (7.62 m)		30′ (9.14 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+20′ (6.1 m)							10,050 lb* (4559 kg)	8,850 lb* (4014 kg)			30′2″ (9.2 m)	5,850 lb* (2654 kg)	5,850 lb* (2654 kg)
+15′ (4.57 m)					11,950 lb* (5420 kg)	11,950 lb* (5420 kg)	11,050 lb* (5012 kg)	8,700 lb (3946 kg)			32′1 (9.78 m″)	5,800 lb* (2631 kg)	5,400 lb (2449 kg)
+10′ (3.05 m)	16,800 lb* (7620 kg)	16,800 lb* (7620 kg)	17,350 lb* (7870 kg)	17,350 lb* (7870 kg)	13,950 lb* (6328 kg)	12,200 lb (5534 kg)	12,000 lb* (5443 kg)	8,450 lb (3833 kg)	9,300 lb (4218 kg)	5,900 lb (2676 kg)	32′11″ (10.03 m)	5,950 lb* (2699 kg)	4,950 lb (2245 kg)
+5′ (1.52 m)	24,500 lb* (11 113 kg)	24,500 lb* (11 113 kg)	22,550 lb* (10 228 kg)	17,800 lb (8074 kg)	15,900 lb* (7212 kg)	11,350 lb (5148 kg)	12,350 lb (5602 kg)	7,900 lb (3583 kg)	9,100 lb (4128 kg)	5,750 lb (2608 kg)	32′11″ (10.03 m)	6,300 lb* (2858 kg)	4,850 lb (2200 kg)
Ground-line	21,450 lb* (9730 kg)	21,450 lb* (9730 kg)	25,400 lb* (11 521 kg)	16,600 lb (7530 kg)	17,150 lb (7779 kg)	10,700 lb (4853 kg)	11,950 lb (5420 kg)	7,550 lb (3425 kg)	8,900 lb (4037 kg)	5,550 lb (2517 kg)	32′0″ (9.75 m)	6,900 lb* (3130 kg)	5,000 lb (2268 kg)
-5′ (-1.52 m)	26,150 lb* (11 861 kg)	26,150 lb* (11 861 kg)	25,650 lb* (11 635 kg)	16,200 lb (7348 kg)	16,750 lb (7598 kg)	10,350 lb (4695 kg)	11,750 lb (5330 kg)	7,300 lb (3311 kg)			30′1″ (9.17 m)	7,900 lb* (3583 kg)	5,550 lb (2517 kg)
-10′ (-3.05 m)	36,050 lb* (16 352 kg)	33,300 lb* (15 105 kg)	24,800 lb* (11 249 kg)	16,250 lb (7371 kg)	16,700 lb (7575 kg)	10,300 lb (4672 kg)	11,700 lb (5307 kg)	7,300 lb (3311 kg)			26′11″ (8.2 m)	9,700 lb* (4400 kg)	6,750 lb (3062 kg)
-15′ (-4.57 m)	31,750 lb* (14 402 kg)	31,750 lb* (14 402 kg)	21,950 lb* (9956 kg)	16,650 lb (7552 kg)	15,900 lb* (7212 kg)	10,550 lb (4785 kg)					21′10″ (6.65 m)	9,650 lb* (4377 kg)	9,650 lb* (4377 kg)
-20′ (-6.1 m)			15,150 lb* (6872 kg)	15,150 lb* (6872 kg)									

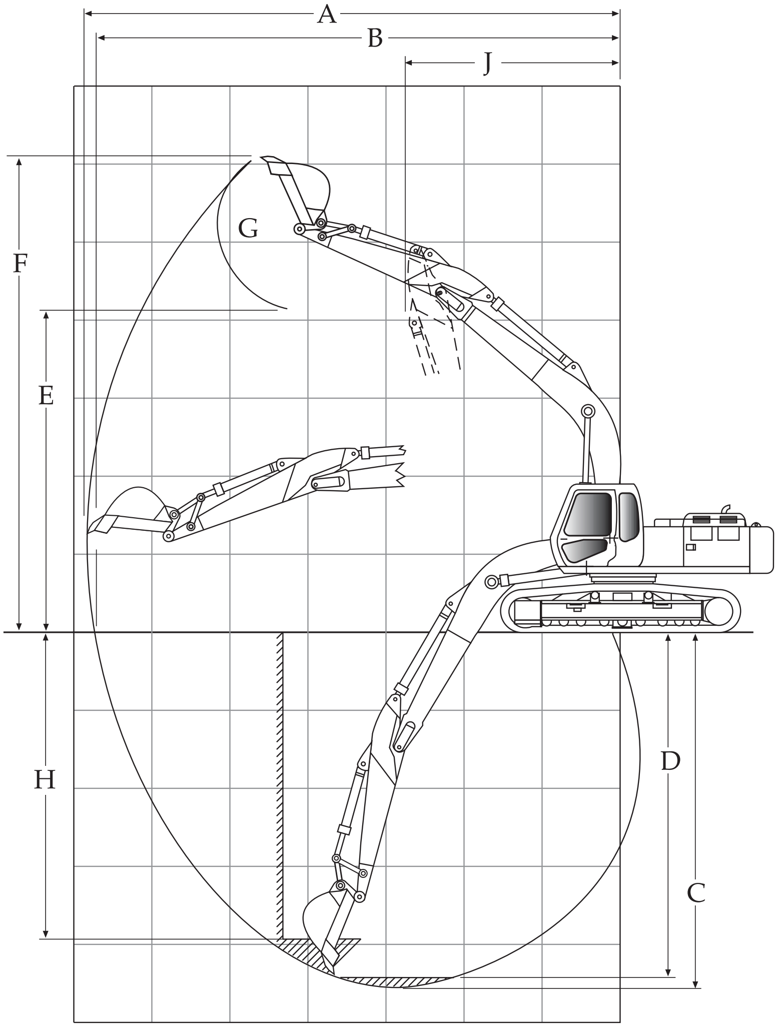


Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS

	11′7″ (3.5 m) Arm	10′2″ (3.1 m) Arm
A. Overall height	10′7″ (3.22 m)	10′0″ (3.05 m)
B. Cab height	9′10″ (3.0 m)	9′10″ (3.0 m)
C. Overall length	32′10″ (10.01 m)	32′9″ (9.98 m)
D. w/o attachment	17′5″ (5.31 m)	17′5″ (5.31 m)
E. Width of upperstructure	8′2″ (2.49 m)	8′2″ (2.49 m)
F. Track overall length	15′3″ (4.65 m)	15′3″ (4.65 m)
G. Track overall width w/32“ (800 mm) shoes	11′1″ (3.38 m)	11′1″ (3.38 m)
H. Track shoe width	32″ (800 mm)	32″ (800 mm)
J. Center to center (idler to sprocket)	12′7″ (3.84 m)	12′7″ (3.84 m)
K. Upperstructure ground clearance	3′7″ (1.09 m)	3′7″ (1.09 m)
L. Minimum ground clearance	1′6″ (760 mm)	1′6″ (760 mm)
M. Tail swing radius	9′10″ (3.0 m)	9′10″ (3.0 m)
Working weight*	53,351 lb (24 200 kg)	53,140 lb (24 104 kg)
Ground pressure	5.2 psi (36 kPa)	5.2 psi (36 kPa)

*With 32“ (800 mm) track shoe, 1,716 lb (778 kg) bucket, 175 lb (79 kg) operator, full fuel and standard equipment.



PERFORMANCE SPECS

	11′7″ (3.5 m) Arm	10′2″ (3.1 m) Arm
A. Maximum dig radius	35′6″ (10.82 m)	34′2″ (10.41 m)
B. Dig radius at groundline	35′0″ (10.67 m)	33′8″ (10.26 m)
C. Maximum dig depth	24′3″ (7.39 m)	22′10″ (6.96 m)
D. Dig depth – 8′0″ (2.44 m) level bottom	23′9″ (7.24 m)	22′4″ (6.81 m)
E. Dump height	22′7″ (6.88 m)	21′11″ (6.68 m)
F. Overall reach height	32′7″ (9.93 m)	31′10″ (9.7 m)
G. Bucket rotation	180°	180°
H. Vertical straight wall dig depth	21′11″ (6.68 m)	20′4″ (6.20 m)
J. Minimum swing radius	12′9″ (3.89 m)	12′8″ (3.86 m)
Arm digging force		
Standard	22,487 lb (100 kN)	24,480 lb (108.9 kN)
Power Boost	24,692 lb (109.8 kN)	26,690 lb (118.7 kN)
Bucket digging force		
Standard	31,090 lb (138.3 kN)	31,090 lb (138.3 kN)
Power Boost	33,950 lb (151 kN)	33,950 lb (151 kN)

NOTE: *Lift capacities on page 2 do not exceed 75% of the minimum tipping load or 87% of the hydraulic lift capacity.
Capacities that are marked with an asterisk are hydraulic limited.

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NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

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